

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE										ATTY. DOCKET NO. S00-009		SERIAL NO. Not assigned	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)										APPLICANT Juan G. Santiago et al.			
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J4828 U.S. PTO
 10/056944
 01/24/02

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	A	6	2	8	7	4	4	0	9/11/01	Arnold et al.	204	450	6/18/99
	B	2	9	4	9	5	5	0	8/16/60	Thomas T. Brown et al.	310	5	7/3/57
	C	6	0	3	3	5	4	6	3/7/00	Ramsey	204	603	9/15/98
	D	6	0	4	6	0	5	6	4/4/00	Parce et al.	436	514	12/6/96
	E	6	0	8	2	8	9	1	7/4/00	Schubert et al.	366	338	4/17/98
	F	6	0	8	6	2	4	3	7/11/00	Paul et al.	366	273	10/1/98
	G	6	1	5	8	7	1	2	12/12/00	Ctaig	251	61.1	10/16/98
	H	6	1	7	6	9	6	2	1/23/01	Soane et al.	156	292	1/18/97
	I	6	1	7	4	6	7	5	1/16/01	Chow et al.	435	6	8/27/98
	J	6	2	1	0	9	8	6	4/3/01	Arnold et al.	438	42	9/23/99
	K	6	2	1	3	1	5	1	4/10/01	Jacobson et al.	137	827	4/25/00
	L	6	2	2	1	2	2	6	4/24/01	Kopf-Sill	204	602	10/7/99
	M	6	2	3	5	1	7	5	5/22/01	Dubrow et al.	204	453	10/2/98
	N	6	2	3	5	4	7	1	5/22/01	Knapp et al.	435	6	4/3/98
	O	6	2	4	1	3	7	9	6/5/01	Larsen	366	181.5	
	P	6	3	0	6	2	7	3	10/23/01	Wainright et al.	204	454	4/13/99
JS	Q	6	3	3	7	7	4	0	1/8/02	Parce	356	344	8/19/99

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		DOCUMENT NUMBER							ISSUE DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
JS	A	M. H. Oddy et al.; "Electrokinetic instability micromixing;" Analytical Chemistry, Vol. 73, No. 24, December 15, 2001, Pg. 5822-5832
	B	J. G. Santiago; "Electroosmotic flows in microchannels with finite inertial and pressure forces;" Analytical Chemistry, Vol. 73, No. 10, May 15, 2001, Pg. 2353-2365
JS	C	Yi-Kuen Lee et al.; "Chaotic mixing in electrokinetically and pressure driven micro flows;" The 14 th IEEE Workshop on MEMS Interlaken, Switzerland, Jan. 2001

<i>JS</i>	D	Pavlo Takhistov et al.; "Electrokinetic displacement of air bubbles in microchannels;" January 29, 2001
	E	Jorg P. Kutter; "Current developments in electrophoretic and chromatographic separation methods on microfabricated devices;" trends on analytical chemistry, vol. 19, no. 6, 2000
	F	Robin H. Liu et al.; "Passive mixing in a three-dimensional serpentine microchannel;" JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, VOL. 9. NO. 2, JUNE 2000
	G	Giles HI WI Sanders et al.; "Chip-based microsystems for genomic and proteomic analysis;" trends on analytical chemistry, vol. 19, no. 6, 2000
	H	Stephen C. Jacobson; "Microfluidic devices for electrokineticall parallel and serial mixing;" Analytical Chemistry, Vol. 71, No. 20, October 15, 1999, Pg. 4455-4459
	I	M Koch et al.; "Two simple micromixers based on silicon;" J. Micomech. Microeng. 8 (1998) 123-126. Printed in the UK
	J	Dorian Liepmann et al.; "Micro-fluidic mixer;" LIEPMANN D.; EVANS J. D. POLYM. MATER. SCI. ENG. PROC. ACS DIV. POLYM. MATER. SCI. ENG. 1997, 76, PP. 549-550 CITATION
	K	Norbert Schwesinger et al.; "A modular microfluid system with an integrated micromixer;" J. Micomech. Microeng. 6 (1996) 99-102. Printed in the UK
	L	J. Michael Ramsey et al.; "Microfabricated chemical measurement systems;" NATURE MEDICINE, VOLUME 1, NO. 10, OCTOBER 1995
	M	M Elwenspoek; "Towards integrated microliquid handling systems;" J. Micomech. Microeng. 4 (1994) 227-245. Printed in the UK
	N	J. M. Schneider et al.; "Electrohydrodynamic stability of space-charge-limited currents in dielectric liquids. I. Theoretical study;" THE PHYSICS OF FLUIDS, VOLUME 13, NUMBER 8, AUGUST 1970
<i>JS</i>	0	J. R. Melcher et al.; "Electrohydrodynamics: a review of the role of interfacial shear stresses;" MELCHER, J. R. :TAYLER, G. I. ANNU. REV. FLUID MECH. 1969, I. 111-146

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7/2/04

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A					
	B					
	C					
	D					

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	ISSUE DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JS</i>	A	Emilij K. Zholkovskij et al.; "Electrokinetic instability of solution in a plane-parallel electrochemical cell," JOURNAL OF COLLOID AND INTERFACE SCIENCE 181, 28-33 (1996)
<i>JS</i>	B	Kurt Seller et al.; "Electroosmotic pumping and valveless control of fluid flow within a manifold of capillaries on a glass chip," ANAL. CHEM. VOL. 66, NO. 20, OCTOBER 15, 1994, 3485-3491
	C	
	D	

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J. M. [Signature]

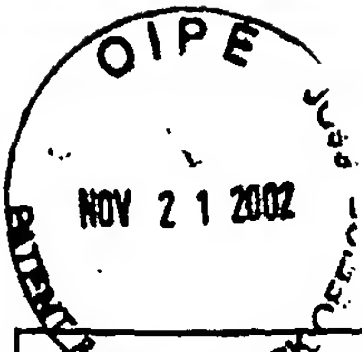
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U.S. PATENT DOCUMENTS							
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	JS						
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	D						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A	Jonathan Knight, "Honey, I shrunk the lab," NATURE/VOL 418 1 AUG 12 2002, PP 474-475.					
	B	JS					
	C						
	D						
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